

SEQ ID NO:	Sequence
1	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
2	Ac-HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
3	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRY
4	HSDAVFTDQYTRLRKQVAAKKYLQSIKQK
5	HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRY
6	HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGT
7	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKR
8	HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRY
9	HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRY
10	HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRY
11	HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRY
12	HSDAVFTDQYTRLRKQMAGKKYLQSIKQKR
13	HSDAVFTDQYTRLRKQMAKKKYLQSIKQKR
14	HSDAVFTDQYTRLRKQMARKKYLQSIKQKR
15	HSDAVFTDQYTRLRKQMASKKYLQSIKQKR
16	HSDAVFTDQYTRLRKQMAAKKYLQSIPOKR
17	HSDAVFTDQYTRLRKQMAAKKYLQSIQOKR
18	HSDAVFTDQYTRLRKQMAAKKYLQSIROKR
19	HSDAVFTDQYTRLRKQMAAKKYLQSIQORR
20	HSDAVFTDQYTRLRKQMAAKKYLQSIQKA
21	HSDAVFTDQYTRLRKQMAAKKYLQSIQKF
22	HSDAVFTDQYTRLRKQMAAKKYLQSIQKH
23	HSDAVFTDQYTRLRKQMAAKKYLQSIQKI
24	HSDAVFTDQYTRLRKQMAAKKYLQSIQKK
25	HSDAVFTDQYTRLRKQMAAKKYLQSIQKL
26	HSDAVFTDQYTRLRKQMAAKKYLQSIQKM
27	HSDAVFTDQYTRLRKQMAAKKYLQSIQKP
28	HSDAVFTDQYTRLRKQMAAKKYLQSIQKQ
29	HSDAVFTDQYTRLRKQMAAKKYLQSIQKS
30	HSDAVFTDQYTRLRKQMAAKKYLQSIQKT
31	HSDAVFTDQYTRLRKQMAAKKYLQSIQKV
32	HSDAVFTDQYTRLRKQMAAKKYLQSIQKW
33	HSDAVFTDQYTRLRKQMAAKKYLQSIQKY
34	HSDAVFTDQYTRLRKQMAGKKYLQSIQRI
35	HSDAVFTDQYTRLRKQMAKKKYLQSIQRI
36	HSDAVFTDQYTRLRKQMASKKYLQSIQRI
37	HSDAVFTDQYTRLRKQMAAKKYLQSIPORI
38	HSDAVFTDQYTRLRKQMASKKYLQSIQRI

FIG. 1a

SEQ ID NO:	Sequenc
39	HSDAVFTDNYTRLRKQVAAKKYLQSIKQKRY
40	Ac-HTDAVFTDNYTRLRKQVAAKKYLQSIKQKRY
41	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKRY
42	HSDAVFTDNYTRLRKQVAAKKYLQSIKQK
43	HTEAVFTDNYTRLRKQVAAKKYLQSIKQKRY
44	HSDAVFTDNYTRLRKQLAVKKYLQDIKQGGT
45	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKR
46	HSDAVFTDNYTRLRKQLAAKKYLQTIKQKRY
47	HSDAVFTDNYTRLRKQMAAKKKYLQTIKQKRY
48	HSDAVFTDNYTRLRKQMAAHKKYLQSIKQKRY
49	HSDAVFTDNYTRLRKQMAAKHYLQSIKQKRY
50	HSDAVFTDNYTRLRKQMAGKKYLQSIKQKR
51	HSDAVFTDNYTRLRKQMAKKKKYLQSIKQKR
52	HSDAVFTDNYTRLRKQMARKKKYLQSIKQKR
53	HSDAVFTDNYTRLRKQMASKKKYLQSIKQKR
54	HSDAVFTDNYTRLRKQMAAKKKYLQSIPOKR
55	HSDAVFTDNYTRLRKQMAAKKKYLQSIQOKR
56	HSDAVFTDNYTRLRKQMAAKKKYLQSIROKR
57	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQRR
58	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKA
59	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKF
60	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKH
61	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKI
62	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKK
63	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKL
64	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKM
65	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKP
66	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKQ
67	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKS
68	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKT
69	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKV
70	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKW
71	HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKY
72	HSDAVFTDNYTRLRKQMAGKKYLQSIKQRI
73	HSDAVFTDNYTRLRKQMAKKKKYLQSIKQRI
74	HSDAVFTDNYTRLRKQMASKKKYLQSIKQRI
75	HSDAVFTDNYTRLRKQMAAKKKYLQSIPORI
76	HSDAVFTDNYTRLRKQMASKKKYLQSIQRI

**FIG. 1b**

SEQ ID NO:	Sequence
77	HSDAVFTDQYTRLRKQVAAKKYLQSIKNKRY
78	Ac-HTDAVFTDQYTRLRKQVAAKKYLQSIKNKRY
79	HSDAVFTDQYTRLRKQMAAKKYLQSIKNKRY
80	HSDAVFTDQYTRLRKQVAAKKYLQSIKNK
81	HTEAVFTDQYTRLRKQVAAKKYLQSIKNKRY
82	HSDAVFTDQYTRLRKQLAVKKYLQDIKNGGT
83	HSDAVFTDQYTRLRKQMAAKKYLQSIKNKR
84	HSDAVFTDQYTRLRKQLAAKKYLQTIKNKRY
85	HSDAVFTDQYTRLRKQMAAKKYLQTIKNKRY
86	HSDAVFTDQYTRLRKQMAAHKYLQSIKNKRY
87	HSDAVFTDQYTRLRKQMAAKHYLQSIKNKRY
88	HSDAVFTDQYTRLRKQMAGKKYLQSIKNKR
89	HSDAVFTDQYTRLRKQMAKKKYLQSIKNKR
90	HSDAVFTDQYTRLRKQMARKKYLQSIKNKR
91	HSDAVFTDQYTRLRKQMASKKYLQSIKNKR
92	HSDAVFTDQYTRLRKQMAAKKYLQSI PNKR
93	HSDAVFTDQYTRLRKQMAAKKYLQSI QNKR
94	HSDAVFTDQYTRLRKQMAAKKYLQSI RNKR
95	HSDAVFTDQYTRLRKQMAAKKYLQSI KNRR
96	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKA
97	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKF
98	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKH
99	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKI
100	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKK
101	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKL
102	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKM
103	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKP
104	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKQ
105	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKS
106	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKT
107	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKV
108	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKW
109	HSDAVFTDQYTRLRKQMAAKKYLQSI KNKY
110	HSDAVFTDQYTRLRKQMAGKKYLQSI KNRI
111	HSDAVFTDQYTRLRKQMAKKKYLQSI KNRI
112	HSDAVFTDQYTRLRKQMASKKYLQSI KNRI
113	HSDAVFTDQYTRLRKQMAAKKYLQSI PNRI
114	HSDAVFTDQYTRLRKQMASKKYLQSI RNRI

**FIG. 1c**

SEQ ID NO:	S quence
115	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
116	Ac-HTDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
117	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRYC-PEG
118	HSDAVFTDQYTRLRKQVAAKKYLQSIKQKC-PEG
119	HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
120	HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGTC-PEG
121	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRC-PEG
122	HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRYC-PEG
123	HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRYC-PEG
124	HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRYC-PEG
125	HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRYC-PEG
126	HSDAVFTDQYTRLRKQMAGKKYLQSIKQKRC-PEG
127	HSDAVFTDQYTRLRKQMAKKKYLQSIKQKRC-PEG
128	HSDAVFTDQYTRLRKQMARKKYLQSIKQKRC-PEG
129	HSDAVFTDQYTRLRKQMASKKYLQSIKQKRC-PEG
130	HSDAVFTDQYTRLRKQMAAKKYLQSIQKRC-PEG
131	HSDAVFTDQYTRLRKQMAAKKYLQSIQKRC-PEG
132	HSDAVFTDQYTRLRKQMAAKKYLQSIQKRC-PEG
133	HSDAVFTDQYTRLRKQMAAKKYLQSIQRRRC-PEG
134	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKAC-PEG
135	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKFC-PEG
136	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKHC-PEG
137	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKIC-PEG
138	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKKC-PEG
139	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKLC-PEG
140	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKMC-PEG
141	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKPC-PEG
142	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQC-PEG
143	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKSC-PEG
144	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKTC-PEG
145	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKVC-PEG
146	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKWC-PEG
147	HSDAVFTDQYTRLRKQMAAKKYLQSIKQKYC-PEG
148	HSDAVFTDQYTRLRKQMAGKKYLQSIKQRIC-PEG
149	HSDAVFTDQYTRLRKQMAKKKYLQSIKQRIC-PEG
150	HSDAVFTDQYTRLRKQMASKKYLQSIKQRIC-PEG
151	HSDAVFTDQYTRLRKQMAAKKYLQSIQRIC-PEG
152	HSDAVFTDQYTRLRKQMASKKYLQSIQRIC-PEG

FIG. 1d

<u>Bam</u> HI	Factor Xa
<u>GGATCC</u>	ATC GAA GGT CGT CAC TCC GAC GCT GTT TTC ACC GAC cag TAC
ACG CGT CTG CGT AAA CAG gtt GCT gca AAG AAA TAC CTG cag TCC ATC aag	
cag aag cgt tac TAA TGA <u>CTCGAG</u>	(SEQ ID NO: 153)
stop codons	<u>Xho</u> I

FIG. 2

SEQ ID NO:	Sequence
154	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
155	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
156	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG
157	CAC ACC GAA GCT GTT TTC ACC GAC CAG TACACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
158	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG CTG GCT GTT AAG AAA TAC CTG CAG GAC ATC AAG CAG GGC GGT ACC
159	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
160	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG CTG GCT GCA AAG AAA TAC CTG CAG ACC ATC AAG CAG AAG CGT TAC
161	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG ACC ATC AAG CAG AAG CGT TAC
162	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA CAC AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
163	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG CAC TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
164	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GGC AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
165	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT AAA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
166	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT CGT AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
167	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT

**Fig. 3a**

168	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CCC CAG AAG CGT
169	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CAG CAG AAG CGT
170	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CGT CAG AAG CGT
171	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT CGT
172	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG GCA
173	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TTC
174	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CAC
175	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG ATC
176	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG AAG
177	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CTG
178	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG ATG
179	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CCC
180	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CAG
181	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TCC

**Fig. 3b**

182	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG ACC
183	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG GTT
184	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TGG
185	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TAC
186	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GGT AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT ATC
187	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT AAA AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT ATC
188	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT ATC
189	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CCC CAG CGT ATC
190	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC CGT CAG CGT ATC
191	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
192	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
193	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG
194	CAC ACC GAA GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
195	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG CTG GCT GTT AAG AAA TAC CTG CAG GAC ATC AAG CAG GGC GGT ACC

**Fig. 3c**



196	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
197	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG CTG GCT GCA AAG AAA TAC CTG CAG ACC ATC AAG CAG AAG CGT TAC
198	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG ACC ATC AAG CAG AAG CGT TAC
199	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA CAC AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
200	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG CAC TAC CTG CAG TCC ATC AAG CAG AAG CGT TAC
201	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GGC AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
202	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT AAA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
203	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT CGT AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
204	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CGT
205	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CCC CAG AAG CGT
206	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CAG CAG AAG CGT
207	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CGT CAG AAG CGT
208	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT CGT
209	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG GCA

**Fig. 3d**

210	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TTC
211	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CAC
212	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG ATC
213	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG AAG
214	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CTG
215	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG ATG
216	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CCC
217	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG CAG
218	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TCC
219	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG ACC
220	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG GTT
221	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TGG
222	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG CAG AAG TAC
223	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GGT AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT ATC

**Fig. 3e**

224	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT AAA AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT ATC
225	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC AAG CAG CGT ATC
226	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CCC CAG CGT ATC
227	CAC TCC GAC GCT GTT TTC ACC GAC AAC TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC CGT CAG CGT ATC
228	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT TAC
229	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT TAC
230	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG
231	CAC ACC GAA GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG GTT GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT TAC
232	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG CTG GCT GTT AAG AAA TAC CTG CAG GAC ATC AAG AAC GGC GGT ACC
233	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT
234	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG CTG GCT GCA AAG AAA TAC CTG CAG ACC ATC AAG AAC AAG CGT TAC
235	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG ACC ATC AAG AAC AAG CGT TAC
236	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA CAC AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT TAC
237	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG CAC TAC CTG CAG TCC ATC AAG AAC AAG CGT TAC

**Fig. 3f**

238	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GGC AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT
239	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT AAA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT
240	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT CGT AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT
241	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CGT
242	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CCC AAC AAG CGT
243	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CAG AAC AAG CGT
244	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CGT AAC AAG CGT
245	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC CGT CGT
246	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG GCA
247	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG TTC
248	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CAC
249	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG ATC
250	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG AAG
251	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CTG

**Fig. 3g**

252	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG ATG
253	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CCC
254	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG CAG
255	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG TCC
256	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG ACC
257	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG GTT
258	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG TGG
259	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC AAG AAC AAG TAC
260	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GGT AAG AAA TAC CTG CAG TCC ATC AAG AAC CGT ATC
261	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT AAA AAG AAA TAC CTG CAG TCC ATC AAG AAC CGT ATC
262	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC AAG AAC CGT ATC
263	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT GCA AAG AAA TAC CTG CAG TCC ATC CCC AAC CGT ATC
264	CAC TCC GAC GCT GTT TTC ACC GAC CAG TAC ACG CGT CTG CGT AAA CAG ATG GCT TCC AAG AAA TAC CTG CAG TCC ATC CGT AAC CGT ATC

**Fig. 3h**

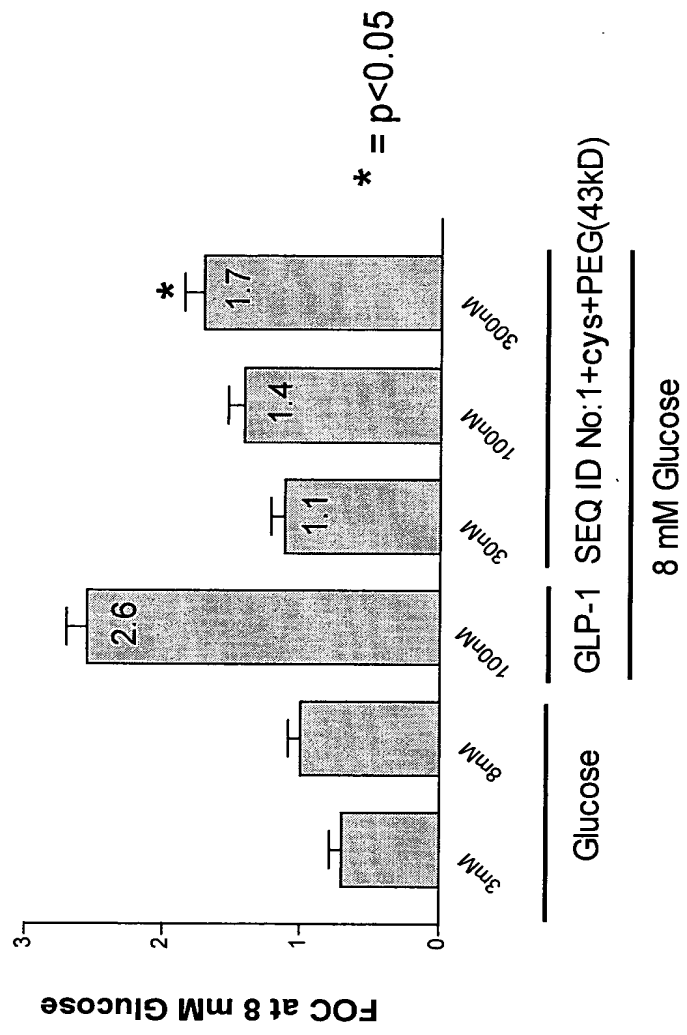


FIG. 4

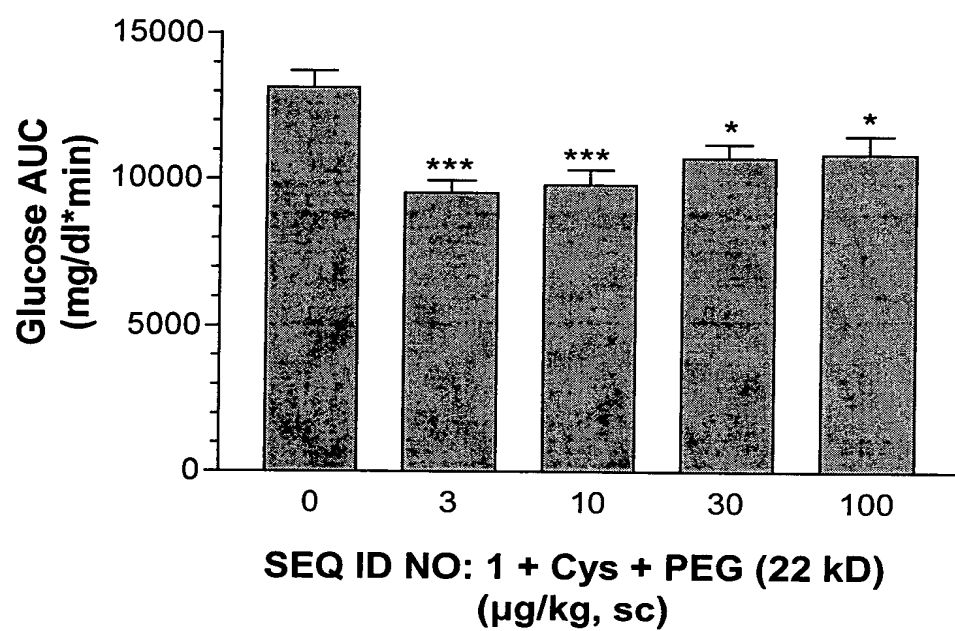


FIG. 5

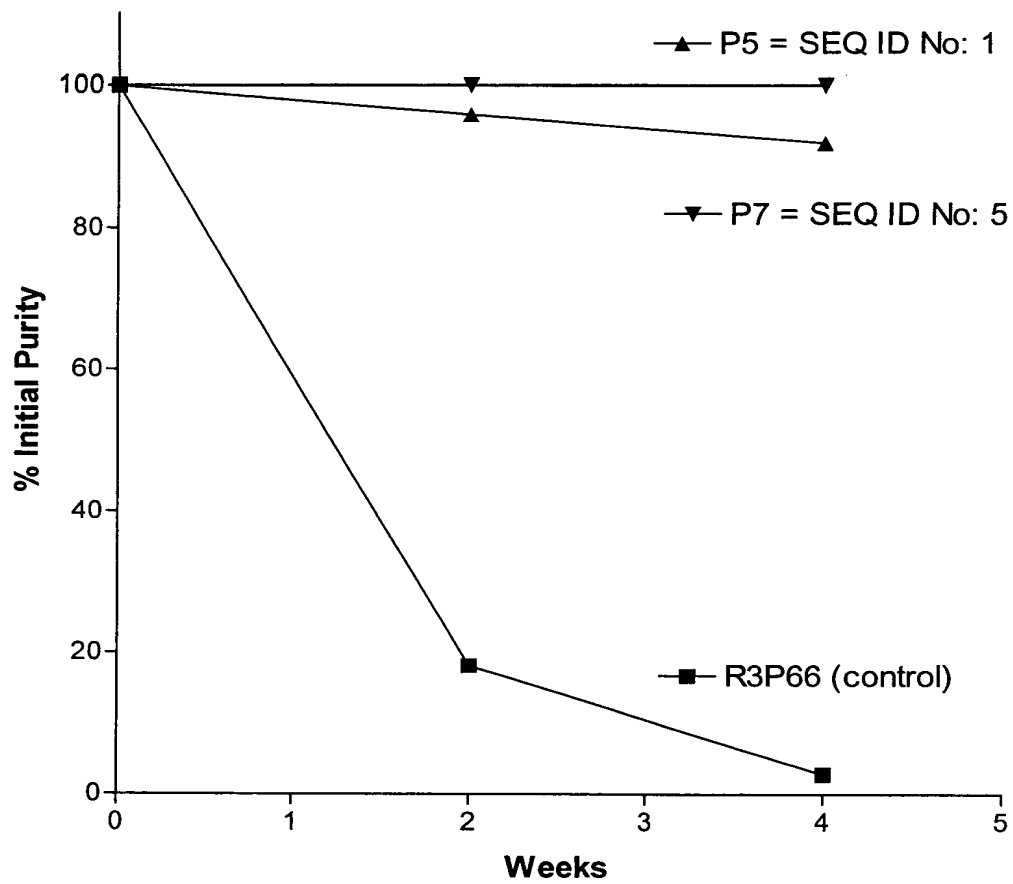


FIG. 6



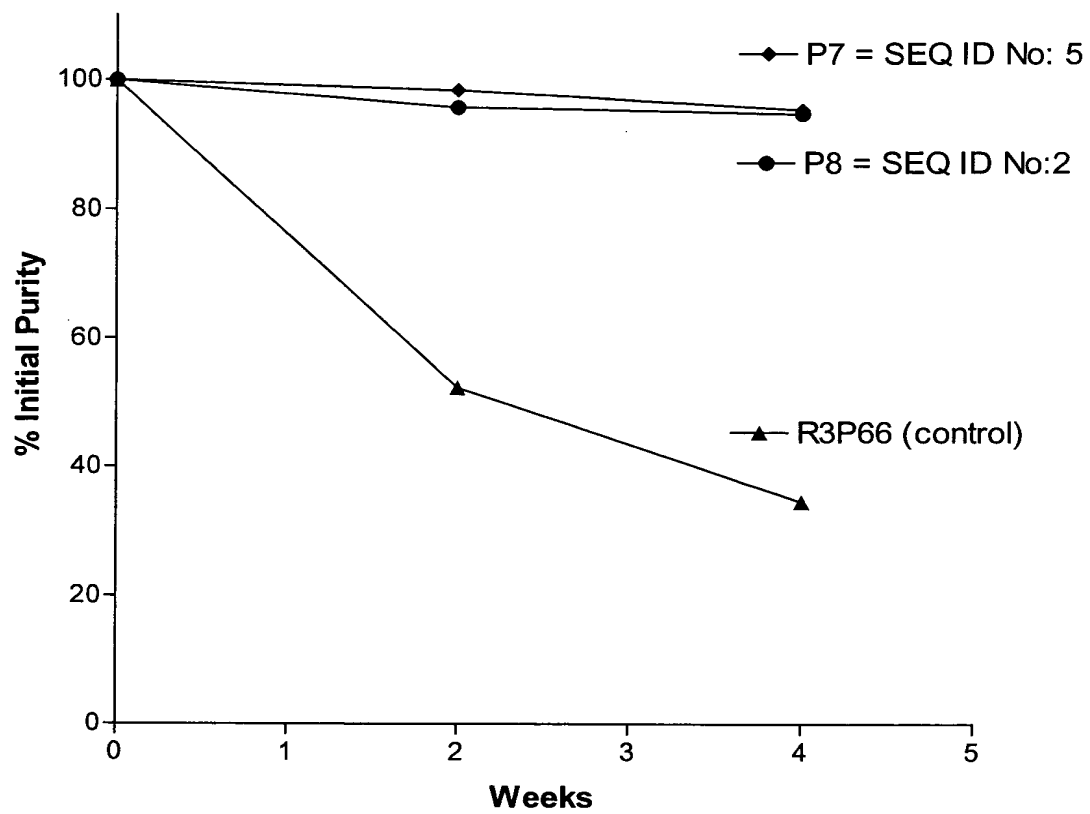


FIG. 7

- SEQ ID No: 1+cys+PEG (43 kD)
- ▼ SEQ ID No: 1+cys+PEG (43 kD) (without N-terminal His)

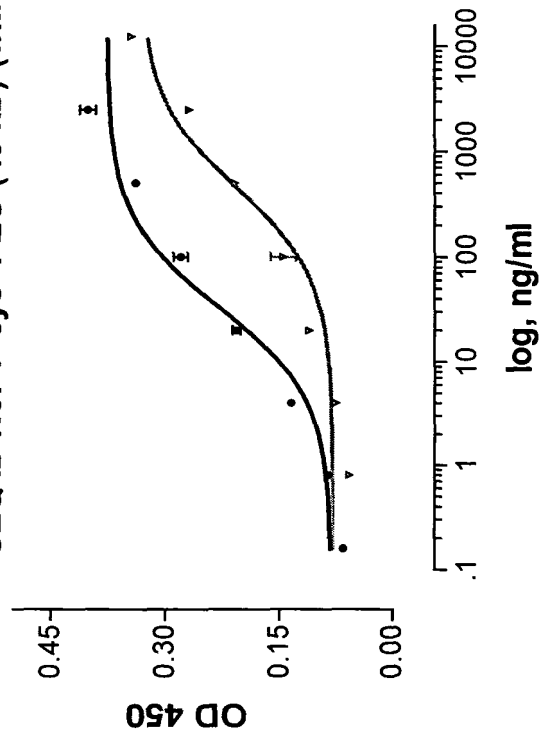


FIG. 8